

## ABSTRACT OF THE DISCLOSURE

A three-dimensional crossbar network of a distributed exchanger type for connecting  $L \times M \times N$  arithmetic units, in which an interface conversion LSI 32 for transferring a packet  
5 to a Z axis crossbar switch 41 is provided between an X axis crossbar switch 21 and a Y axis crossbar switch 31. The interface conversion LSI 32 has an optical module 33 so that an optical fiber 300 can be applied as a packet transfer path between the Y axis crossbar switch and the Z axis crossbar  
10 switch.

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